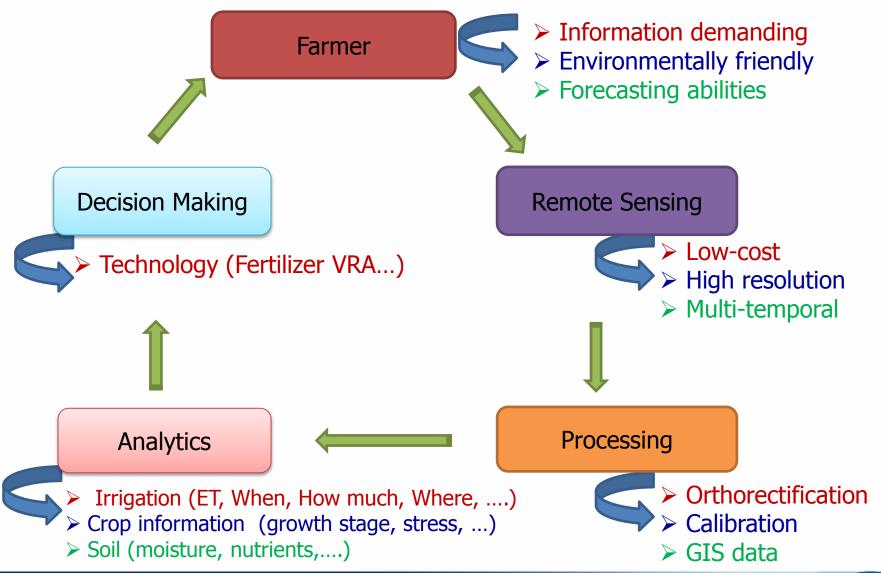
Farm Management





Not all crops are the same

Full cover: alfalfa / grains



0 0.05 0.1 0.2 Miles

Location: Central Utah

Date: 2012 / 2013

Area: 245 acres

Resolution:

RGBNIR: 0.15m

Thermal: 0.60m

Row crop: vineyards



Location: Lodi, CA Date: 2014 / 2015

Area: 210 acres

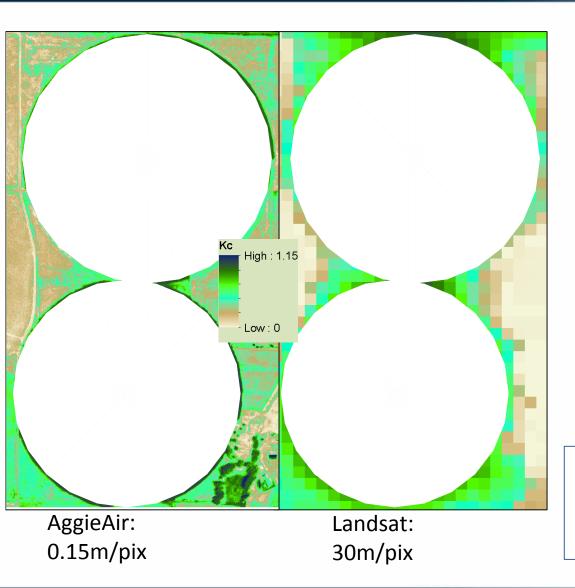
Resolution:

RGBNIR: 0.10m

Thermal: 0.60m



Irrigation is done at fine scale

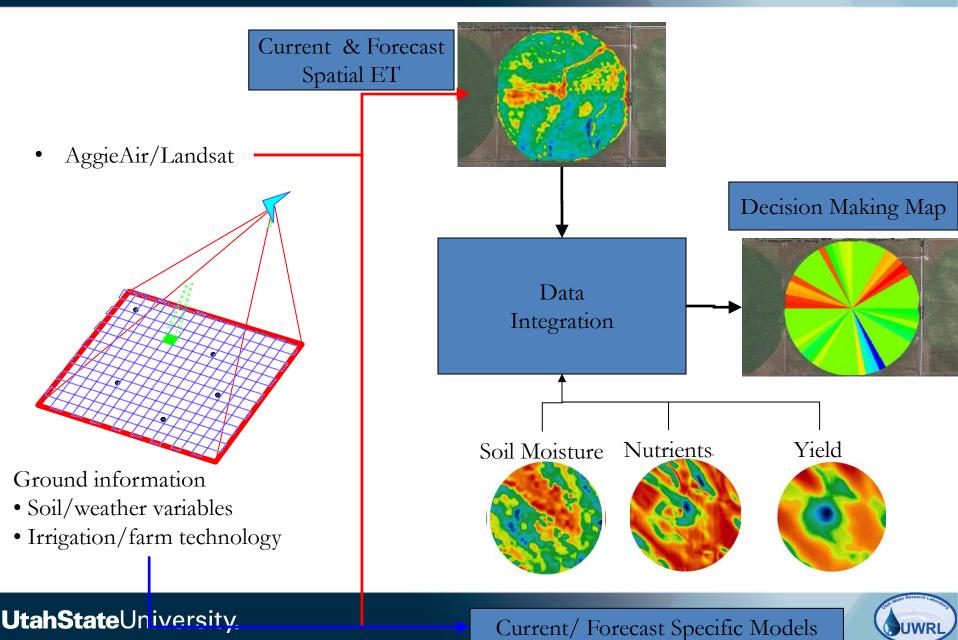


What is the right resolution for decision-making?

At this resolution, AggieAir imagery contains about 40,000 times as much information per unit of land area as Landsat.



Management at Farm Level



The AggieAir UAV platform:

AggieAir 2.5: Second Generation ("Minion")

Status:	Deployed
Wingspan:	9 ft
Takeoff Weight:	17 lbs
Payload Weight:	5 lbs
Flight Range:	37 miles
Flight Time:	1.25 hours

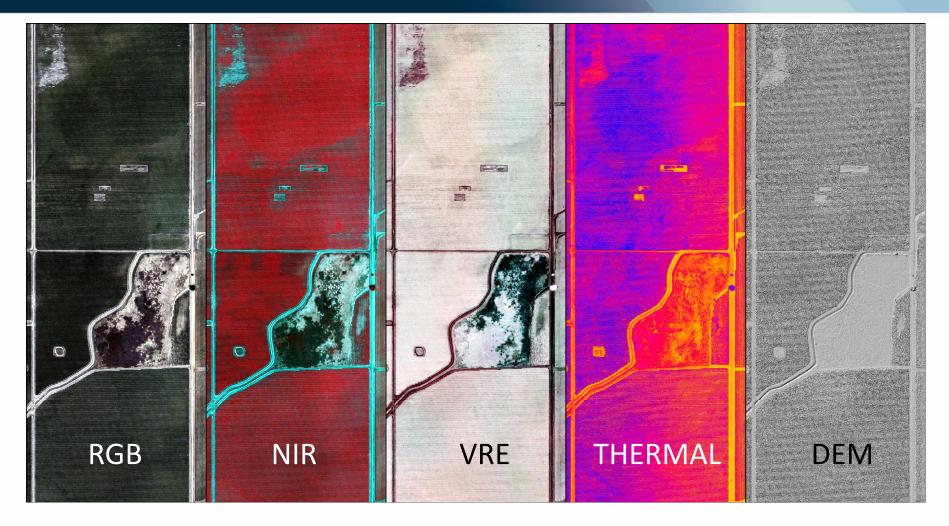








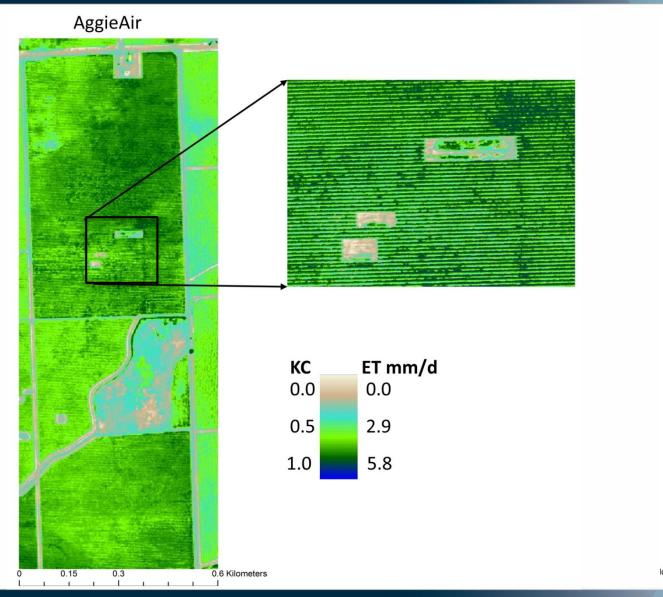
AggieAir: Scientific, sensor-flexible UAV

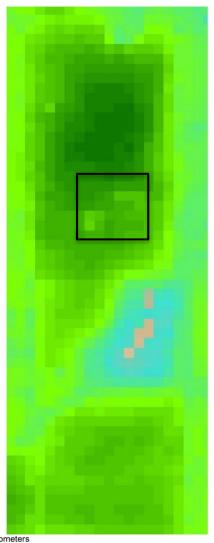


*Example: CA vineyards
In collaboration with ARS USDA and E&J Gallo Research Groups



Example: Landsat ET validation in vineyards





Landsat 8

